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54 **Low moire directional optical filter for crt displays.**

57 A directional optical filter (41) is provided for a shadow mask color cathode ray tube (shadow mask CRT) (47) having a plurality of display elements on its face (49). Two sets of light absorbing planes are arranged at approximately 90° from one another and serve to block light passing there-through from an angle greater than a predetermined angle of viewing. In order to reduce moire patterns which would result from varying coincidences of the planes with patterns of phosphor dots on the shadow mask CRT (47), filter sheets

(43, 45) containing the light absorbing planes are rotated so that at least one set of light absorbing planes is misaligned with a set of closely-adjacent phosphor dots by approximately 15°.

Advantages include the ability to provide a parallel light absorbing plane directional optical filter in association with a shadow mask CRT and an ability to control the range of preferred viewing angles to differing amounts substantially in the horizontal and vertical directions.

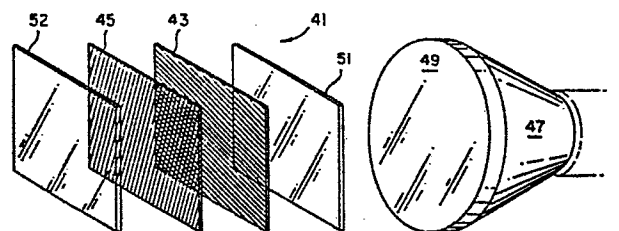


FIG. 2



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EUROPEAN SEARCH REPORT

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EP 84 11 5364

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	US-A-3 194 885 (V.E. HAMILTON) * Column 2, lines 20-26, 31-40, 62-68; figures 1-3 *	1, 2, 4-7	H 01 J 29/89
X	US-A-3 378 636 (V.E. HAMILTON) * Column 1, line 56 - column 2, line 14; column 2, lines 25-66; figure 5 *	1, 2, 4-7	
A	GB-A-2 042 854 (DELTA DATA SYSTEMS) * Page 1, lines 32-40, 114-115; page 2, lines 1-8, 58-74; figure 1 *	1-4	
A	GB-A-2 055 225 (THOMSON) * Page 1, lines 50-53; figure 3 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
A	US-A-2 653 516 (G.A. JOHNSON) * Column 5, lines 1-17; figure 3 *	1	H 01 J 29 G 02 B 5 H 04 N 5
A	US-A-3 511 560 (V.E. HAMILTON)		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16-04-1985	Examiner WITH F.B.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			